

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

Confirmation No. 1671

CLARK et al

Atty. Ref.: 179-54

Appln. No. 10/020,436

T.C. / Art Unit: 1639

Filed: December 18, 2001

Examiner: TD. Wessendorf

For: A METHOD FOR MAPPING THE ACTIVE SITES BOUND BY ENZYMES THAT COVALENTLY MODIFY SUBSTRATE MOLECULES

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR § 1.97(c)**

June 7, 2004

**Mail Stop Amendment**  
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Sir:

Attached is a Form PTO-1449 listing the enclosed documents.

The Official Fee required under 37 CFR § 1.97(c) is filed herewith. Should that fee be missing or inadequate, please charge the deficiency to our Deposit Account No. 14-1140 Matter No. 179-54 for which purpose this paper is submitted in duplicate.

This Information Disclosure Statement (IDS) is intended to be in full compliance with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under 37 CFR § 1.97(f), to enable Applicants to comply fully. In particular, if any of the listed documents are missing or incomplete, please contact the undersigned who will provide another copy.

As provided by 37 CFR §§ 1.97(g) and (h), no inference should be made that this information and the listed references are prior art merely because they have been submitted for consideration. Furthermore, no representation is being made that a search has been conducted or that this statement encompasses all possible material information.

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Consideration of the foregoing and enclosures, as well as the return of a copy of the Form PTO-1449 with the Examiner's initials per M.P.E.P. § 609, are earnestly solicited. The Examiner is invited to contact the undersigned if any further information is needed.

Respectfully submitted,

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<b>INFORMATION DISCLOSURE CITATION</b>		ATTY. DOCKET NO.	APPLN. NO.
		179-54	10/020,436
		APPLICANT	
(Use several sheets if necessary)		CLARK et al.	
		FILING DATE	GROUP
		December 18, 2001	1639
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)</b>			
AR	Arpala et al. "Defective T cell receptor signaling and CD8 thymic selection in humans lacking Zap-70 kinase" Cell 76:947-958 (1994)		
BR	Barker et al. "BRK tyrosine kinase expression in a high proportion of human breast carcinomas" Oncogene 15:799-805 (1997)		
CR	Casnelli "Assay of protein kinases using peptides with basic residues for phosphocellulose binding" Meth. Enzymol. 200:115-120 (1991)		
DR	Dente et al. "Modified phage peptide libraries as a tool to study specificity of phosphorylation and recognition of tyrosine containing peptides" J. Mol. Biol. 269:694-703 (1997)		
ER	Elder et al. "Human severe combined immunodeficiency due to a defect in ZAP-70, a T cell tyrosine kinase" Science 264:1596-1599 (1994)		
FR	Hanks et al. "Protein kinase catalytic domain sequence database: Identification of conserved features of primary structure and classification of family members" Meth. Enzymol. 200:38-62 (1991)		
GR	Kemp et al. "Pseudosubstrate-based peptide inhibitors" Meth. Enzymol. 201:287-304 (1991)		
HR	Lee et al. "A protein kinase involved in the regulation of inflammatory cytokine biosynthesis" Nature 372:739-746 (1994)		
IR	Lehtola et al. "Analysis of tyrosine kinase mRNAs including four FGF receptor mRNAs expressed in MCF-7 breast-cancer cells" Int. J. Cancer 50:598-603 (1992)		
JR	Roifman "A mutation in zap-70 protein tyrosine kinase results in a selective immunodeficiency" J. Clin. Immunol. 15:52S-62S (1995)		
KR	Songyang et al. "Use of an oriented peptide library to determine the optimal substrates of protein kinases" Curr. Biol. 4:973-982 (1994)		
LR	Wardenburg et al. "Phosphorylation of SLP-76 by the ZAP-70 protein-tyrosine kinase is required for T-cell receptor function" J. Biol. Chem. 271:19641-19644 (1996)		
MR	Wilson et al. "Crystal structure of p38 mitogen-activated protein kinase" J. Biol. Chem. 271:27696-27700 (1996)		
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*Examiner			

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